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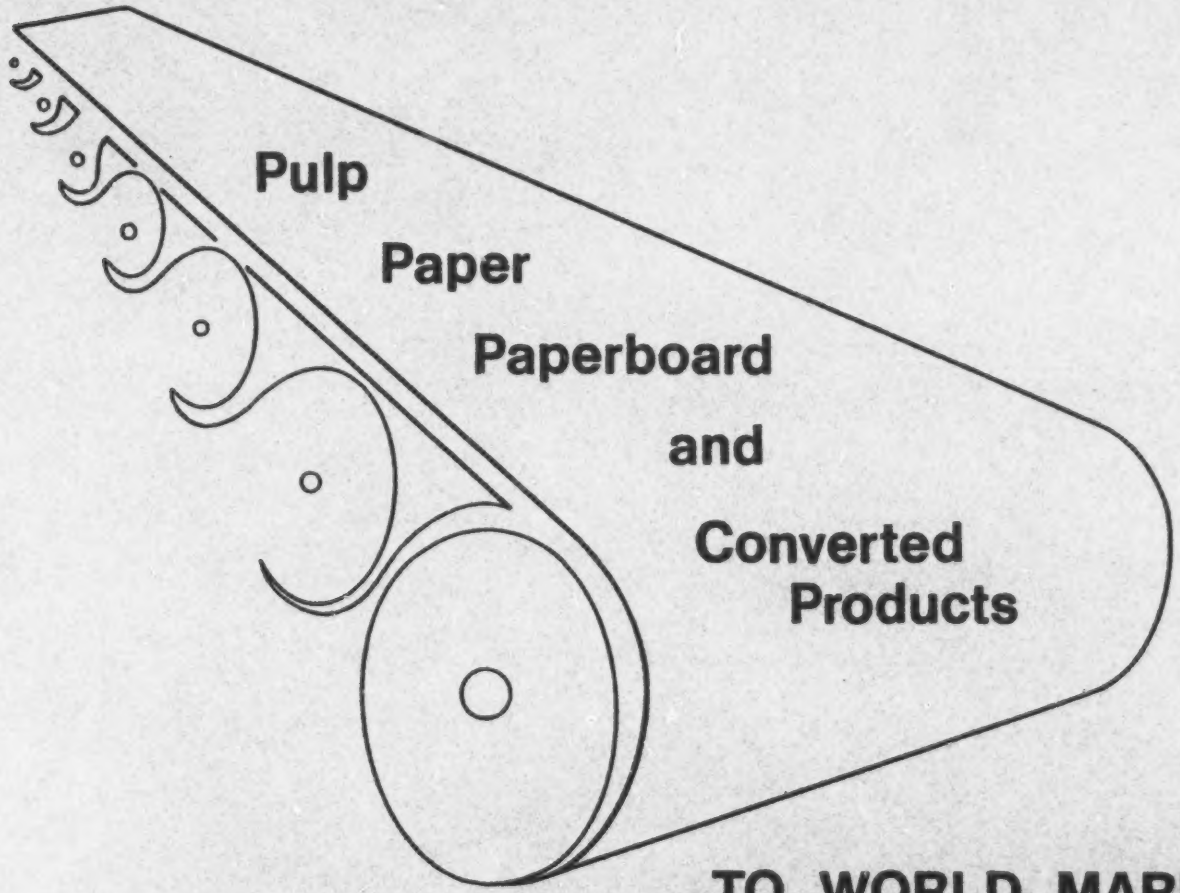

TO WORLD MARKETS - 1979

INTERNATIONAL DEPARTMENT
AMERICAN PAPER INSTITUTE 260 Madison Avenue, New York, N.Y. 10016

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SUMMARY AND ANALYSIS

This is the eighth edition of the American Paper Institute's annual report on U.S. paper industry exports by major product categories and thirteen areas of destination.[1/] This year, for the first time, exports to Japan are listed separately. In the past they were incorporated in Oceania and the Far East.

1979 -- A Banner Year for U.S. Exports

In 1979, exports of the U.S. paper industry amounted to an all-time high of almost $3.4 billion, up 30.2 percent from 1978 -- a significant increase even if one takes into account the high rate of inflation. The industry's total export volume increased 17.1 percent to a record nine million tons. This is a gain of 12 percent over the previous high of eight million tons achieved in 1974. In 1978, by comparison, U.S. paper industry exports rose by only 2.3 percent in volume and 0.9 percent in value.

Of the four product categories in Table 1, waste paper showed the most striking change: export volume increased by 633,797 tons, or 39.6 percent, and value rose by $110.2 million, or 75.6 percent.

Table 1

U.S. PAPER INDUSTRY EXPORTS - WORLDWIDE

	1979		1978		Percentage Change: 1979/1978	
	Short Tons	Value ($1,000)	Short Tons	Value ($1,000)	Tonnage	Value
Wood Pulp	2,934,815	1,103,783	2,598,952	817,102	+ 12.9	+ 35.1
Cotton and Other Pulp	131,444	74,579	88,481	47,987	+ 48.5	+ 55.4
Waste Paper	2,233,246	256,107	1,599,449	145,884	+ 39.6	+ 75.6
Paper, Paperboard and Converted Products	3,704,234	1,925,163	3,398,318	1,568,994	+ 9.0	+ 22.7
GRAND TOTAL	9,003,739	3,369,434*	7,685,200	2,587,490**	+ 17.1	+ 30.2

* Grand total includes $9,802,000 for which no tonnage figures are available.
** Grand total includes $7,523,000 for which no tonnage figures are available.

1/ Detailed Bureau of the Census data on exports to individual countries are kept on file and are available upon request from the International Department. Data are presented in this report on both a volume (short ton) and a dollar basis.

Exports of Fiber

The volume of exports in 1979 for all fibers (wood pulp, including dissolving pulp; cotton and other pulp; and waste paper) amounted to 5,299,505 tons, an increase of 1,012,623 tons over 1978 (up 23.6 percent). Exports of wood pulp, which accounted for 55 percent of total fiber exports, rose by 335,863 tons (or 12.9 percent) in volume and by $286.7 million (or 35.1 percent) in value.1/ As in the previous years, the total export tonnage of fibers greatly exceeded the combined export tonnage of paper, paperboard and converted products.

With the exception of bleached hardwood sulphate pulp and semi-chemical pulp, all grades of wood pulp had a greater export volume in 1979 than in the previous year.

Bleached softwood sulphate pulp was again the grade with the greatest export volume (1,102,018 tons, up 27.8 percent from 1978), accounting for 37 percent of the total U.S. wood pulp export tonnage in 1979. Dissolving pulp and bleached hardwood sulphate pulp were the next largest grades, with exports of 764,466 tons and 530,302 tons, respectively.

The export volume for the seven remaining grades of wood pulp amounted to 538,029 tons in 1979.

On an area basis, Western Europe continued to be the largest importer of U.S. wood pulp in 1979, accounting, as in 1978, for exactly 50 percent, or 1,467,044 tons, of the total U.S. export tonnage. While this figure represented an 11 percent increase in volume, the export value of wood pulp shipped to Western Europe rose by one-third to $546.6 million. The enlarged European Community of the Nine accounted for 92 percent of U.S. wood pulp exports to Western Europe in 1979.

1/ The API Pulp Division provides detailed and timely information on exports in its monthly "U.S. Wood Pulp Data" reports. The analysis in this report is only a brief summary in the context of overall exports. It should be noted that the API data on total wood pulp exports in 1979 amounted to 2,783,159 tons, five percent below the Bureau of the Census figure. The largest discrepancies were in the sulphite paper grades and in dissolving pulp, suggesting a possible classification problem. We are not yet able to determine the precise reasons for these discrepancies.

Japan was the largest individual customer country for U.S. wood pulp in 1979, with purchases of 557,406 tons, up 21.8 percent from the previous year. This represented 19 percent of the total amount of U.S. wood pulp exports worldwide. West Germany, with wood pulp purchases of 347,099 tons, up 23.4 percent from 1978, was the second largest individual country importer, followed by Italy, France, and the United Kingdom, in that order. The value of wood pulp exports to Japan and Germany amounted to $222 and $132 million, respectively.

The two tables that follow show the tonnage and value of total U.S. exports of wood pulp and waste paper by area of destination in 1979 and 1978.1/

Table 2

U.S. EXPORTS OF WOOD PULP BY AREA OF DESTINATION

	Tonnage			Value ($1,000)		
	1979	1978	% Change	1979	1978	% Change
Western Europe	1,467,044	1,322,743	+ 10.9	546,575	409,575	+ 33.4
Canada	136,641	96,782	+ 41.2	49,608	32,173	+ 54.2
Central America and Mexico	166,917	147,337	+ 13.3	58,736	45,899	+ 28.0
Caribbean and Other Islands	7,627	2,370	+ 221.8	2,446	736	+ 232.3
South America	133,915	131,446	+ 1.9	47,725	37,024	+ 28.9
Near and Middle East	19,671	26,694	- 26.3	8,040	6,473	+ 24.2
Africa	81,589	88,121	- 7.4	29,943	28,073	+ 6.7
Oceania and Far East	312,516	261,540	+ 19.5	115,643	75,099	+ 54.0
Japan	557,406	457,620	+ 21.8	222,214	158,885	+ 39.9
U.S.S.R./Eastern Europe	39,638	48,520	- 18.3	18,970	19,114	- 0.8
People's Republic of China	11,851	15,779	- 24.9	3,883	4,051	- 4.1
TOTAL	2,934,815	2,598,952	+ 12.9	1,103,783	817,102	+ 35.1

1/ For greater details on waste paper exports, see the API International Department report entitled "U.S Exports of Waste Paper in 1979," issued in April, 1980, as well as the API Paper Recycling Committee's monthly reports.

Table 3

U.S. EXPORTS OF WASTE PAPER BY AREA OF DESTINATION

	Tonnage			Value		
	1979	1978	% Change	1979 ($1,000)	1978	% Change
Western Europe	238,504	129,123	+ 84.7	29,495	11,533	+ 155.7
Canada	478,479	341,672	+ 40.0	50,206	33,466	+ 50.0
Central America and Mexico	394,443	248,367	+ 58.8	43,774	21,660	+ 102.1
Caribbean and Other Islands	21,334	7,364	+ 189.7	2,858	862	+ 231.6
South America	128,387	100,895	+ 27.2	13,851	9,092	+ 52.3
Near and Middle East	926	808	+ 14.6	258	168	+ 53.6
Africa	631	326	+ 93.5	52	46	+ 13.0
Oceania and Far East	830,629	670,274	+ 23.9	100,468	59,804	+ 68.0
Japan	139,913	100,620	+ 39.1	15,145	9,253	+ 63.7
TOTAL	2,233,246	1,599,449	+ 39.6	256,107	145,884	+ 75.6

Exports of Paper, Paperboard and Converted Products

The combined export tonnage of paper, paperboard and converted products amounted to 3,704,234 tons in 1979, an increase of nine percent from 1978. The 1979 export tonnage was 16.8 percent above the 1975 recession low of 3,171,369 tons, but it was still four percent below the all-time high of 3,856,623 tons achieved in 1974. In terms of value, U.S. exports of paper, paperboard and converted products rose 22.7 percent to a record $1.9 billion in 1979, compared to $1.4 billion in 1974.

On a regional basis, Western Europe remained the major export market for the U.S. paper industry. In 1972, when API first compiled this report, Western Europe accounted for 41 percent of the combined U.S. export tonnage of primary grades and converted products. Declining significantly during each of the next three years, the area's proportionate share of this export volume amounted to only 26 percent in 1975, and it has remained approximately the same in each of the four subsequent years.1/ In 1979, the figure was 27.6 percent.

1/ The enlarged European Community accounted for one-quarter (or 941,519 tons) of total U.S. exports of paper, paperboard and converted products in 1979. Unbleached kraft linerboard alone made up 70 percent of this EC import tonnage.

Canada maintained its position as the leading individual country purchaser of U.S. exports of paper, paperboard and converted products, accounting for 17.4 percent (or 645,729 tons) of the total U.S. export volume, down from 20 percent (681,212 tons) in 1978.

The two largest grade categories for U.S. exports to Canada in 1979 were: converted products (171,124 tons), and printing and writing papers (108,290 tons). Canada's imports of construction paper and paperboard from the U.S. represented almost two-thirds of the total U.S. exports for that category, while the corresponding figure for special industrial and absorbent papers was nearly 50 percent.

Table 4 shows the volume of U.S. exports to Canada in 1979 by major grade categories, as well as the Canadian percentage share,by category, of the total U.S. export tonnage.

Table 4

U.S. EXPORTS OF PAPER, PAPERBOARD AND CONVERTED PRODUCTS TO CANADA, 1979

	Tonnage	Export Tonnage to Canada as % of Total U.S. Exports
Newsprint	2,803	3.9
Printing, Writing and Related Paper	108,290	39.4
Packaging and Industrial Converting Paper	16,110	15.5
Tissue Paper	7,501	26.9
Special Industrial and Absorbent Paper	59,947	48.7
Unbleached Kraft Linerboard	54,606	3.3
Other Unbleached Kraft Paperboard	23,764	23.7
Corrugating Medium	2,909	16.7
Bleached Paperboard	66,688	13.1
Recycled Paperboard	69,772	39.7
Wet Machine Board	5,269	71.5
Construction Paper and Paperboard	56,946	65.7
Converted Products	171,124	30.4
TOTAL	645,729	17.4

Paper

In 1979, the U.S. paper export tonnage increased 5.8 percent to 600,876 tons, while the value of those exports rose by 16.4 percent to $507.6 million. Table 5 provides the export data for the five major categories of paper in 1978 and 1979.

Table 5

U.S. EXPORTS OF PAPER BY CATEGORY

	Tonnage			Value		
	1979	1978	% Change	1979	1978 ($1,000)	% Change
Newsprint	71,456	82,454	- 13.3	32,046	29,947	+ 7.0
Printing, Writing and Related Paper	274,608	266,097	+ 3.2	233,371	208,800	+ 11.8
Packaging and Industrial Converting Paper	103,782	88,920	+ 16.7	57,775	46,905	+ 23.2
Tissue Paper	27,905	21,130	+ 32.1	23,934	17,814	+ 34.3
Special Industrial and Absorbent Paper	123,125	109,555	+ 12.4	160,442	132,585	+ 21.0
TOTAL	600,876	568,156	+ 5.8	507,568	436,051	+ 16.4

In 1979, three areas registered declines in paper import tonnage from the U.S.: Canada; Western Europe; and Africa. However, every market area except Canada showed a significant increase in the value of its imports of paper from the U.S. The People's Republic of China imported small amounts of paper from the U.S. in 1979, for the first time since 1975. See Table 6.

Table 6

U.S. EXPORTS OF PAPER BY AREA OF DESTINATION

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Western Europe	79,263	89,625	- 11.6	101,289	87,415	+ 15.9
Canada	194,651	208,782	- 6.8	149,514	150,059	- 0.4
Central America and Mexico	110,534	91,087	+ 21.3	74,884	55,593	+ 34.7
Caribbean and Other Islands	31,011	28,713	+ 8.0	20,833	17,157	+ 21.4
South America	69,813	52,196	+ 33.7	53,910	41,779	+ 29.0
Near and Middle East	13,733	12,750	+ 7.7	12,422	9,944	+ 24.9
Africa	7,940	10,688	- 25.7	11,116	10,176	+ 9.2
Oceania and Far East	69,490	67,342	+ 3.2	63,821	54,963	+ 16.1
Japan	23,454	6,875	+ 241.1	18,268	8,684	+ 110.4
U.S.S.R./Eastern Europe	305	98	+ 211.2	1,083	281	+ 285.4
People's Republic of China	682	0	-	428	0	-
TOTAL	600,876	568,156	+ 5.8	507,568	436,051	+ 16.4

Newsprint

In 1979, newsprint was the only paper category to show a decrease in volume, as exports fell 13.3 percent to 71,456 tons. However, the export value rose $2.1 million to $32 million, 7 percent higher than in 1978. Newsprint exports accounted for 11.9 percent of the total U.S. paper export tonnage in 1979, compared to 14.5 percent the year before. These exports have consistently declined on both a tonnage and value basis since the record highs of 188,139 tons and $53 million attained in 1974.

Japan and Venezuela were, in almost equal degree, the largest purchasers of newsprint from the U.S. in 1979, together buying 35,325 tons, or nearly half of the total U.S. export tonnage of this grade. France, Indonesia and Mexico, in that order, were the next largest purchasing countries. Mexico had been the leading customer country for U.S. newsprint in 1978 with 19,865 tons -- more than three times the amount purchased in 1979.

Printing, Writing and Related Paper

Printing, writing and related paper remained the largest export category of paper in 1979, as the export volume rose 3.2 percent to 274,608 tons, and value increased 11.8 percent to $233.4 million.

In previous years, the largest export grade within this category was uncoated free sheet. In 1979, however, exports of this grade moved into second place as they were surpassed by uncoated groundwood paper. Mexico (27,042 tons), Canada (15,099 tons), and Belgium (11,729 tons) were the three leading customer countries in 1979 for uncoated groundwood paper, accounting for two-thirds of the total U.S. export tonnage of that grade. Canada and Mexico, with purchases of 25,463 tons and 10,136 tons, respectively, accounted for just over half of the export tonnage of uncoated free sheet in 1979.

For an analysis of the relationship between exports of different grades in 1979 and 1978, see Table 7.

Table 7

U.S. EXPORTS OF PRINTING, WRITING AND RELATED PAPER

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Not Cut to Size or Shape:	255,683	247,203	+ 3.4	207,937	185,029	+ 12.4
Uncoated Groundwood	80,392	58,109	+ 38.3	55,384	37,154	+ 49.1
Clay-Coated Groundwood	38,384	33,758	+ 13.7	27,690	21,294	+ 30.0
Uncoated Free Sheet	51,284	68,435	- 25.1	41,858	46,246	- 9.5
Clay-Coated Free Sheet	35,137	39,834	- 11.8	30,054	33,064	- 9.1
Other Printing, Writing and Related	50,486	47,067	+ 7.3	52,951	47,271	+ 12.0
Cut to Size or Shape:	18,925	18,894	+ 0.2	25,434	23,771	+ 6.7
Uncoated Free Sheet	16,875	16,461	+ 2.5	22,288	19,939	+ 11.8
Cotton Fiber	2,050	2,433	- 15.7	3,146	3,832	- 17.9
TOTAL	274,608	266,097	+ 3.2	233,371	208,800	+ 11.8

As in the past, the largest customer country for U.S. exports of printing, writing and related paper in 1979 was Canada, with 108,290 tons, or 39.4 percent of the total, down slightly from 1978 when it took 115,277 tons, or 43.3 percent, of the total export tonnage. Mexico was the next leading customer country, with purchases of 42,866 tons, a sharp increase over the 27,620 tons imported in 1978. These two countries together accounted for 55 percent of the U.S. export tonnage of printing, writing and related paper in 1979.

Packaging and Industrial Converting Paper

With 1979 exports of 103,782 tons, valued at $57.8 million (increases of 16.7 and 23.2 percent in volume and value), packaging and industrial converting paper was the third largest paper export category.

The three largest country customers for U.S. exports of packaging and industrial converting paper were Mexico, with 24,645 tons, 85 percent of which was unbleached kraft paper; Canada, with 16,110 tons; and Ecuador, with 13,598 tons. These three countries accounted for 52.3 percent of total exports of this category. This is a change from 1978, when Canada was the largest importer with 28,153 tons (or 31.7 percent of the total), and Mexico was a distant second with 7,968 tons. In 1978, exports to Ecuador were negligible (less than 250 tons).

Tissue Paper

Although exports of primary tissue paper registered tonnage and value increases in 1979, tissue paper remained the paper category with the least exports (see Table 5). The three largest importers were Canada, Mexico and Iran with 27, 16 and 15 percent of the total export tonnage, respectively. It should be noted that exports of converted tissue and sanitary products achieved substantial increases in 1979 (see page xx, dealing with converted paper and paperboard products.)

Special Industrial and Absorbent Paper

In 1979, exports of special industrial and absorbent paper amounted to 123,125 tons (up 12.4 percent from 1978), valued at $160.4 million (up 21 percent from 1978). Coated or impregnated stock made up three-quarters of the 1979 export tonnage of this category. Canada, the leading customer country, imported 59,947 tons, accounting for 49 percent of the total exports of this category, the same as in 1978. Ninety percent of the Canadian import tonnage from the U.S. was coated or impregnated stock. Australia, Brazil and Mexico, in that order, were the next leading customer countries.

Paperboard

In 1979, the U.S. export tonnage of paperboard rose 8.5 percent to 2.4 million tons, while the value increased 23.1 percent to $790 million. Table 8 summarizes the data for exports of the major categories of paperboard during the last two years.

Table 8

U.S. EXPORTS OF PAPERBOARD BY CATEGORY

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Unbleached Kraft Linerboard	1,644,901	1,539,510	+ 6.3	434,515	344,110	+ 26.3
Other Unbleached Kraft Board	100,301	65,833	+ 52.3	33,739	22,330	+ 51.1
Semi-Chemical Corrugating Medium	17,358	32,051	- 45.8	5,208	5,742	- 9.3
Bleached Paperboard	508,601	415,244	+ 22.5	238,813	183,946	+ 29.8
Recycled Paperboard	175,811	203,535	- 13.6	77,627	85,611	- 9.3
TOTAL	2,446,972	2,256,173	+ 8.5	789,902	641,739	+ 23.1

Unbleached Kraft Linerboard

Unbleached kraft linerboard is by far the largest export grade within the U.S. paper industry. The data for total U.S. exports of kraft linerboard by area of destination in 1979 and 1978 are shown in Table 9. The API International Department issues a detailed annual report on kraft linerboard which analyzes major changes in export flows not only from the U.S. but also from four other major supplying countries.[1/] Therefore, no separate analysis is presented in this report.

1/ See "Exports of Kraft Linerboard and Corrugating Material from the United States, Canada, Finland, Norway, and Sweden to World Markets in 1979," issued in May, 1980. API's Fourdrinier Kraft Board Group also issues monthly reports on production of kraft linerboard for export.

Table 9

U.S. EXPORTS OF UNBLEACHED KRAFT LINERBOARD
BY AREA OF DESTINATION

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Western Europe	711,138	623,158	+ 14.1	190,298	144,155	+ 32.0
Canada	54,606	39,129	+ 39.5	10,545	6,488	+ 62.5
Central America and Mexico	278,352	269,798	+ 3.2	63,294	51,739	+ 22.3
Caribbean and Other Islands	45,912	72,036	- 36.3	14,130	18,003	- 21.5
South America	109,969	146,405	- 24.9	28,524	33,151	- 14.0
Near and Middle East	100,588	107,158	- 6.1	28,608	23,866	+ 19.9
Africa	69,663	79,779	- 12.7	19,964	17,875	+ 11.7
Oceania and Far East	189,710	141,574	+ 34.0	57,456	34,092	+ 68.5
Japan	74,443	57,842	+ 28.7	19,161	14,303	+ 34.0
U.S.S.R./Eastern Europe	0	0	-	0	0	-
People's Republic of China	10,520	2,631	+ 300.0	2,535	438	+ 478.7
TOTAL	1,644,901	1,539,510	+ 6.8	434,515	344,110	+ 26.3

Bleached Paperboard

Bleached paperboard exports have grown steadily over the past decade, registering substantial gains in 1979 of 93,357 tons (up 22.5 percent) and $54.9 million (up 29.8 percent). This was the second largest paperboard export category in 1979, accounting for 20.8 percent of the total paperboard export tonnage, compared to 18.4 percent in 1978.

All areas, with the exception of the Caribbean and the Middle East, showed import gains in 1979. Bleached paperboard exports to Japan registered the greatest increases: 39,058 tons, or 48.7 percent, in volume, and $23.8 million, or 66 percent, in value. The export volume to Oceania and the Far East increased by 18,980 tons, or 31.4 percent, while the volume shipped to Central America and Mexico rose by 15,804 tons, or 32.6 percent.

Bleached paperboard exports to Western Europe remained relatively stable, while the exports to the Caribbean and the Middle East declined, but from very small bases. See Table 10.

Table 10

U.S. EXPORTS OF BLEACHED PAPERBOARD
BY AREA OF DESTINATION

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
Western Europe	82,080	79,503	+ 3.2	33,927	34,213	- 0.8
Canada	66,688	61,526	+ 8.4	30,247	25,490	+ 18.7
Central America and Mexico	64,282	48,478	+ 32.6	25,748	19,302	+ 33.4
Caribbean and Other Islands	1,398	1,859	- 24.8	849	1,027	- 17.3
South America	45,907	42,834	+ 7.2	22,030	19,078	+ 15.5
Near and Middle East	1,121	1,747	- 35.8	853	1,229	- 30.6
Africa	48,422	38,632	+ 25.3	23,196	17,758	+ 30.6
Oceania and Far East	79,477	60,497	+ 31.4	42,047	29,756	+ 41.3
Japan	119,226	80,168	+ 48.7	59,916	36,093	+ 66.0
U.S.S.R/Eastern Europe	0	0	-	0	0	-
People's Republic of China	0	0	-	0	0	-
TOTAL	508,601	415,244	+ 22.5	238,813	183,946	+ 29.8

Japan not only maintained its position as the leading individual customer country for bleached paperboard, but also increased its share of the total U.S. export tonnage for that category from 19.3 percent (or 80,168 tons) in 1978 to 23.4 percent (or 119,226 tons) in 1979.

Australia, with 71,561 tons; Canada, with 66,688 tons; Mexico, with 53,890 tons; and South Africa, with 47,991 tons, were the next leading customer countries. Together, these five countries accounted for almost 71 percent of the total U.S. export tonnage of bleached paperboard.

For statistical purposes the bleached paperboard category includes the four following grades:

(1) Kraft folding boxboard;
(2) Kraft milk carton stock;
(3) Kraft plate, dish, cup and tray stock; and
(4) Other kraft, n.e.c.

Kraft milk carton stock, by far the largest of the four grades, accounting for 63 percent of the total bleached paperboard export tonnage, achieved the largest increases in both volume (up 26.6 percent to 320,236 tons), and value (up 35.7 percent to $144.6 million). Exports of folding boxboard and other kraft board also increased in 1979, but exports of plate, dish, cup and tray stock declined.

Table 11 provides the export data on individual grades of bleached paperboard for 1979 and 1978.

Table 11

U.S. EXPORTS OF BLEACHED PAPERBOARD BY GRADE

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Kraft Folding Boxboard:	91,259	61,287	+ 48.9	47,377	30,839	+ 53.6
Uncoated	3,367	3,276	+ 2.8	1,048	1,030	+ 1.6
Clay Coated	77,758	53,714	+ 44.8	40,424	26,821	+ 50.7
Resin Coated	10,134	4,297	+ 135.9	5,905	2,988	+ 97.6
Kraft Milk Carton Stock:	320,236	252,928	+ 26.6	144,618	106,537	+ 35.7
Uncoated	47,276	40,966	+ 15.4	20,406	17,239	+ 18.4
Resin Coated	272,960	211,962	+ 28.8	124,212	89,298	+ 39.1
Plate, Dish, Cup & Tray Stock:	40,804	53,933	- 24.3	19,460	23,048	- 15.6
Uncoated Cup	6,437	9,998	- 35.6	3,568	4,304	- 17.1
Other Uncoated, over 92 lbs.	2,173	2,918	- 25.5	1,334	1,850	- 27.9
Clay Coated	11,579	23,400	- 50.5	4,879	9,255	- 47.3
Resin Coated	20,615	17,617	+ 17.0	9,679	7,639	+ 26.7
Other Kraft:	56,302	47,096	+ 19.5	27,358	23,522	+ 16.3
Clay Coated	23,598	17,304	+ 36.4	13,779	10,950	+ 25.8
Uncoated Non-Packaging	32,704	29,792	+ 9.8	13,579	12,572	+ 8.0
TOTAL	508,601	415,244	+ 22.5	238,813	183,946	+ 29.8

Kraft Folding Boxboard

Australia purchased 21,803 tons of this grade, virtually all of it clay coated, from the U.S. in 1979, a gain of 48 percent from the year before. Canada (18,669 tons), South Africa (14,175 tons), the United Kingdom (6,742 tons) and Mexico (5,076 tons) were the next leading customer countries. The combined tonnage of these five countries accounted for nearly three-quarters of the export volume of kraft folding boxboard in 1979. See Table 12.

Table 12

U.S. EXPORTS OF BLEACHED PAPERBOARD BY AREA OF DESTINATION
KRAFT FOLDING BOXBOARD

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Western Europe	18,776	11,991	+ 56.6	7,383	5,404	+ 36.6
Canada	18,669	12,455	+ 49.9	8,728	5,263	+ 65.8
Central America and Mexico	9,860	5,532	+ 78.2	4,591	2,637	+ 74.1
Caribbean and Other Islands	249	691	- 64.0	107	311	- 65.6
South America	1,467	1,296	+ 13.2	744	627	+ 18.7
Near and Middle East	702	125	+ 461.6	356	90	+ 295.5
Africa	14,472	7,486	+ 93.3	7,892	4,245	+ 85.9
Oceania and Far East	26,970	21,711	+ 24.2	17,447	11,983	+ 45.6
Japan	94	165	- 43.0	129	279	- 53.8
U.S.S.R./Eastern Europe	0	0	-	0	0	-
People's Republic of China	0	0	-	0	0	-
TOTAL	91,259	61,287	+ 48.9	47,377	30,839	+ 53.6

Kraft Milk Carton Stock

In 1979, Japan was again the most important customer country for U.S. exports of kraft milk carton stock, as the volume of purchases increased by 40,497 tons and value increased by $24.2 million. One-third, or 115,373 tons, of the total U.S. export volume of milk carton stock went to Japan in 1979, a 55 percent increase over the previous year. Ninety-two percent of the milk carton stock exported to Japan in 1979 was resin coated, while the remaining eight percent was uncoated.

Western Europe, the area with the second highest import tonnage from the U.S., increased its purchases by nearly a third to 52,849 tons. Canada, South America and the Middle East were the only areas importing less milk carton stock from the U.S. in 1979 than in the previous year.

After Japan, the next leading importing countries were: Australia (43,241 tons); Mexico (40,520 tons); South Africa (33,477 tons); the Netherlands (25,217 tons); and Venezuela (22,488 tons). These six countries accounted for 87 percent of the milk carton export tonnage in 1979, virtually the same as in 1978. See Table 13.

Table 13

U.S. EXPORTS OF BLEACHED PAPERBOARD BY AREA OF DESTINATION
KRAFT MILK CARTON STOCK

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Western Europe	52,849	40,060	+ 31.9	21,273	16,198	+ 31.3
Canada	7,118	10,982	- 35.2	1,784	3,492	- 48.9
Central America and Mexico	41,629	36,332	+ 14.6	15,967	13,070	+ 22.2
Caribbean and Other Islands	164	32	+ 412.5	137	15	+ 813.3
South America	25,001	30,581	- 18.2	12,110	13,860	- 12.6
Near and Middle East	194	688	- 71.8	186	565	- 67.1
Africa	33,594	29,302	+ 14.6	15,036	12,586	+ 19.5
Oceania and Far East	44,314	30,075	+ 47.3	20,208	13,029	+ 55.1
Japan	115,373	74,876	+ 54.1	57,917	33,722	+ 71.7
U.S.S.R./Eastern Europe	0	0	-	0	0	-
People's Republic of China	0	0	-	0	0	-
TOTAL	320,236	252,928	+ 26.6	144,618	106,537	+ 35.7

Kraft Plate, Dish, Cup and Tray Stock

Exports of kraft plate, dish, cup and tray stock declined in every geographic area in 1979, with the exception of South America, which imported 12,721 tons in 1979, compared to 3,850 tons in 1978. This was the result of increased Venezuelan purchases of resin coated stock: 11,197 tons in 1979, but only 3,156 tons the year before. The largest decreases (12,282 tons and $4.5 million) occurred in exports to Western Europe, which had been the area with the greatest import tonnage in 1978. See Table 14.

Table 14

U.S. EXPORTS OF BLEACHED PAPERBOARD BY AREA OF DESTINATION
KRAFT PLATE, DISH, CUP & TRAY STOCK

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Western Europe	8,441	20,723	- 59.3	3,912	8,405	- 53.9
Canada	9,032	12,480	- 27.6	3,440	4,279	- 19.6
Central America and Mexico	3,745	4,658	- 19.6	1,660	2,285	- 27.4
Caribbean and Other Islands	365	783	- 53.4	259	447	- 42.6
South America	12,721	3,850	+ 230.4	6,905	2,149	+ 221.3
Near and Middle East	139	455	- 69.5	110	268	- 59.0
Africa	272	1,550	- 82.6	207	754	- 72.6
Oceania and Far East	2,534	4,570	- 44.6	1,520	2,453	- 38.0
Japan	3,555	4,864	- 26.9	1,447	2,008	- 27.9
U.S.S.R./Eastern Europe	0	0	-	0	0	-
People's Republic of China	0	0	-	0	0	-
TOTAL	40,804	53,933	- 24.3	19,460	23,048	- 15.6

Other Kraft, N.E.C.

Canada remained the largest customer country of bleached kraft paperboard, n.e.c., from the U.S., accounting for nearly 57 percent, or 31,869 tons, of the total export tonnage of that grade in 1979. Canada increased its imports by 6,260 tons and $3.8 million. Central America and Mexico purchased 9,048 tons in 1979, compared to 1,956 tons the previous year, with Mexico accounting for 92 percent of the area's import tonnage in 1979. Exports to Western Europe, on the other hand, posted a sharp decline of 4,715 tons and $2.8 million. See Table 15.

Table 15

U.S. EXPORTS OF BLEACHED PAPERBOARD BY AREA OF DESTINATION
OTHER KRAFT, N.E.C.

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Western Europe	2,014	6,729	- 70.1	1,359	4,205	- 67.7
Canada	31,869	25,609	+ 24.4	16,295	12,456	+ 30.8
Central America and Mexico	9,048	1,956	+ 362.6	3,530	1,311	+ 169.3
Caribbean and Other Islands	620	353	+ 75.6	346	254	+ 36.2
South America	6,718	7,107	- 5.5	2,271	2,441	- 7.0
Near and Middle East	86	479	- 82.1	201	306	- 34.3
Africa	84	294	- 71.4	61	174	- 65.0
Oceania and Far East	5,659	4,306	+ 31.4	2,872	2,291	+ 25.4
Japan	204	263	- 22.4	423	84	+ 403.6
U.S.S.R./Eastern Europe	0	0	-	0	0	-
People's Republic of China	0	0	-	0	0	-
TOTAL	56,302	47,096	+ 19.5	27,358	23,522	+ 16.3

Recycled Paperboard

In 1979, U.S. exports of recycled paperboard declined sharply: volume fell by 27,724 tons (or 13.6 percent) to 175,811 tons, while value dropped by $7.9 million (or 9.3 percent) to $77.6 million. The export tonnage of recycled paperboard in 1979 accounted for 7.2 percent of total paperboard exports, compared to 8.9 percent in 1978, 12.7 percent in 1977 and 14.4 percent in both 1976 and 1975.

Linerboard and uncoated non-packaging board, the two recycled paperboard grades with the largest export volume, improved their export positions in 1979, but all other grades suffered declines in varying degrees. See Table 16.

Table 16

U.S. EXPORTS OF RECYCLED PAPERBOARD BY GRADE

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Linerboard	30,716	24,136	+ 27.3	9,978	7,960	+ 25.4
Corrugating Medium	6,675	9,503	- 29.8	1,471	1,480	- 0.6
Uncoated Folding Carton Stock	25,768	59,116	- 56.4	12,058	24,193	- 50.2
Other Uncoated Packaging	23,139	25,166	- 8.1	10,104	12,405	- 18.6
Clay-Coated	21,745	24,819	- 12.4	10,098	12,944	- 22.0
Uncoated Non-Packaging	67,768	60,795	+ 11.5	33,918	26,629	+ 27.4
TOTAL	175,811	203,535	- 13.6	77,627	85,611	- 9.3

Major declines in U.S. exports of recycled paperboard occurred in two key areas: Japan purchased 2,327 tons of recycled paperboard in 1979, compared to 30,933 tons in 1978, when it was second only to Canada as a purchaser of recycled paperboard. This resulted from the precipitous drop in Japanese imports of uncoated folding carton stock from the U.S., which amounted to 30,101 tons in 1978, but only 1,731 tons in 1979. Canada remained by far the leading customer country for U.S. exports of recycled paperboard in 1979, although its purchases fell 7.4 percent to 69,772 tons. Canada's proportionate share of total U.S. recycled paperboard exports amounted to 39.7 percent in 1979, compared to 37 percent the year before. See Table 17.

Table 17

U.S. EXPORTS OF RECYCLED PAPERBOARD BY AREA

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Western Europe	23,032	15,894	+ 44.9	11,036	10,317	+ 7.0
Canada	69,772	75,365	- 7.4	23,277	23,847	- 2.4
Central America and Mexico	32,908	25,012	+ 31.6	16,049	10,880	+ 47.5
Caribbean and Other Islands	12,048	7,580	+ 58.9	5,080	3,047	+ 66.7
South America	10,925	9,860	+ 10.8	6,153	4,907	+ 23.4
Near and Middle East	5,171	4,519	+ 14.4	1,887	1,434	+ 31.6
Africa	2,707	5,133	- 47.3	1,766	2,286	- 22.7
Oceania and Far East	16,870	29,098	- 42.0	10,903	15,439	- 29.4
Japan	2,327	30,933	- 92.5	1,390	13,286	- 89.5
U.S.S.R./Eastern Europe	51	141	- 63.8	86	167	- 48.5
People's Republic of China	0	0	-	0	1	-
TOTAL	175,811	203,535	- 13.6	77,627	85,611	- 9.3

After Canada the leading customer countries were: Mexico, with 15,621 tons; Australia, with 10,265 tons; and the Dominican Republic, with 7,479 tons. These four countries together accounted for 58.6 percent of the total U.S. export tonnage of recycled paperboard.

For Canada in 1979, uncoated non-packaging paperboard accounted for half the recycled paperboard tonnage imported from the U.S. Linerboard and clay coated paperboard accounted for 24 and 19 percent, respectively.

Construction Paper and Paperboard

The 1979 export volume of construction paper and paperboard fell 3.1 percent to 86,672 tons, but the value rose 8.5 percent to $36.9 million. With purchases of 56,946 tons, Canada remained the dominant importer, accounting for almost two-thirds of the tonnage.

Converted Paper and Paperboard Products

Converted products experienced significant gains in both export tonnage (up 85,329 tons, or 17.9 percent) and value (up $133.2 million, or 29.4 percent). As in 1978, exports of converted products accounted for only 6.2 percent of the tonnage but 17.4 percent of the value of total paper industry exports.

The export volume of tissue paper products more than doubled in 1979, as shipments amounted to a record 140,252 tons, valued at $174.8 million. Within this category exports of "other" tissue products -- which include diapers and other disposables -- amounted to nearly three-quarters of the export tonnage. Toilet tissue and paper towels accounted for 10 and 9 percent, respectively.

Exports of paperboard boxes, cartons and drums amounted to 136,650 tons in 1979, a gain of 15.3 percent from 1978. Within this grouping, corrugated containers had the largest export volume -- 84,833 tons, or 62 percent of the total volume.

The export tonnage of special industrial paper products and molded pulp fell nearly 17 percent to 75,450 tons in 1979. With the exception of filter paper exports, which rose 14 percent to 5,802 tons, exports of all other products in this category declined.

Canada remained the best customer country for U.S. exports of converted paper and paperboard products even though its imports fell 13.7 percent to 171,124 tons. Although Canada increased very slightly its imports from the U.S. of cigarette paper, packaging and industrial converting paper products and composite paper and paperboard, the volume of imports for all other converted products declined in 1979. The most significant drops occurred with special industrial paper products and molded pulp (down 21 percent to 32,113 tons) and paperboard boxes, cartons and drums (down 11 percent to 56,646 tons). Canada's proportionate share of the U.S. converted product export tonnage fell from 41.6 percent in 1978 to 30.4 percent in 1979.

After Canada, the most important customer countries for U.S. exports of converted products were Mexico (88,201 tons, one-third more than in 1978) and Japan (43,200 tons, a gain of 132 percent from 1978).

Table 18 summarizes the data for total U.S. exports of major categories of converted products in the last two years. Wall paper, which had been included in printing, writing and related paper products, has been broken out as a separate entity for the first time.

Table 18

U.S. EXPORTS OF CONVERTED PAPER AND PAPERBOARD PRODUCTS BY CATEGORY

	Tonnage			Value		
	1979	1978	% Change	1979	1978	% Change
				($1,000)		
Wall Paper	4,703	4,735	- 0.7	14,529	14,822	- 2.0
Printing, Writing and Related Paper Products	55,674	57,432	- 3.1	65,178	61,298	+ 6.3
Cigarette Paper	25,143	21,920	+ 14.7	45,947	37,416	+ 22.8
Packaging and Industrial Converting Paper Products	31,185	31,901	- 2.2	38,399	34,909	+ 10.0
Tissue Paper Products	140,252	68,260	+ 105.5	174,848	88,923	+ 96.6
Special Industrial Paper Products, Molded Pulp and Other	75,450	90,636	- 16.8	88,179	89,360	- 1.3
Paperboard Boxes, Cartons and Drums	136,650	118,493	+ 15.3	73,452	59,733	+ 23.0
Sanitary Food Containers	49,980	47,874	+ 4.6	48,085	41,428	+ 16.1
Corrugated Paper and Paperboard	36,409	31,640	+ 15.1	30,811	19,735	+ 56.1
Composite Paper and Paperboard	6,897	4,123	+ 67.3	6,192	4,749	+ 30.4
TOTAL	562,343	477,014	+ 17.9	585,620	452,373	+ 29.4

The two pie charts at the end of this report summarize the changes that have occurred in the geographical distribution of U.S. pulp and paper exports between 1972, the first year this report was published, and 1979. Because of the major changes in the export classification system discussed at length in the "Statistical Note," only the aggregates for wood pulp and paper, paperboard and converted products are comparable.

STATISTICAL NOTE

Although the source of the basic information presented herein is the Bureau of the Census, U.S. Department of Commerce, the data as compiled in this report are unavailable anywhere else.

The Census Bureau reports export values on f.a.s. (free alongside ship) basis, which excludes the following costs: loading merchandise aboard the exporting carrier; freight; insurance; and any other charges incurred beyond the port of exit.

1979 was the second year that the revised U.S. Government export classification system was in effect. Consequently, the 1979 data for the individual grade categories are comparable only with 1978 data, and not with the figures for the previous years. However, the aggregate numbers for total paper, paperboard and converted products are fully comparable.

The old export classification system (Schedule B) was largely unstructured and contained imprecisely defined categories. In effect, these were "basket" categories that included a wide variety of products.

By way of comparison, the new Schedule B export codes for primary paper and paperboard are a vast improvement. First, they provide a more rational framework for classifying exports by: (1) type of furnish; (2) type of coating, if any; (3) weight; and (4) in some cases, end use. Second, the new Schedule B has much more detailed identification of individual grades than the old one. Detailed information about the structure of the new Schedule B, as well as cross-references of the new Schedule B codes to the old codes, is available upon request from the International Department.

Some time will be needed before both the Government agencies classifying exports and the exporters themselves become thoroughly familiar with the new classification system. We believe, however, that the new Schedule B will soon begin to provide much more precise information on the flow of the paper industry's exports. The more accurate export data will in turn lead to more meaningful analysis of the impact of foreign trade on the paper industry.

Readers may question discrepancies between the 1978 figures for "paper" and "paperboard" provided in this report and the figures published in our 1978 report. This is because two Schedule B items that were classified under "bleached paperboard, other kraft" in 1978 are now listed under the heading "special industrial paper." The analysis takes these revisions into account.

If you have any questions about this report, or if you would like to have additional information, please contact Mark Wandler, Manager, International Services, or me.

Irene W. Meister
Vice President, International

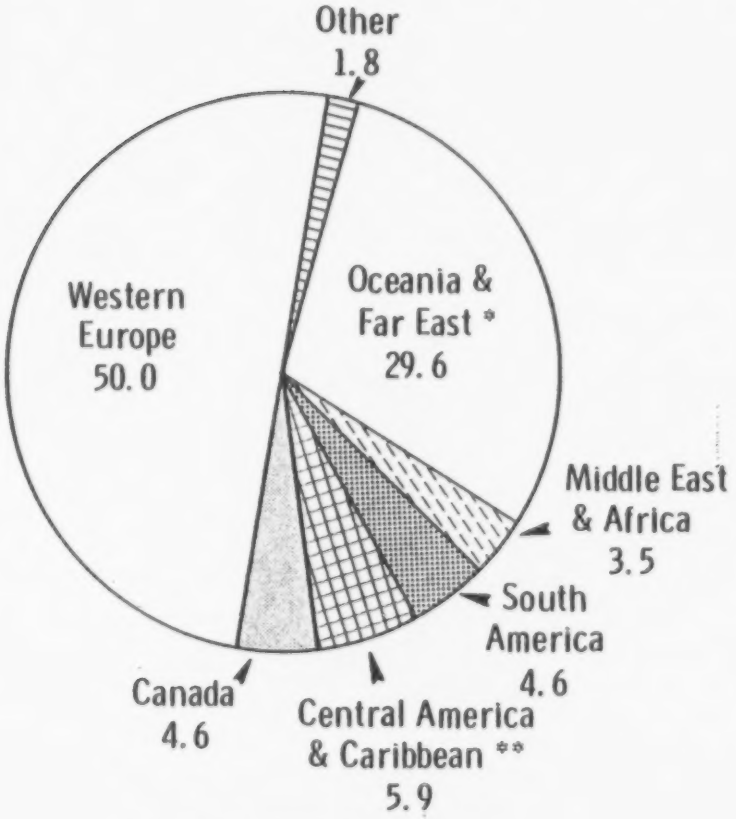
API International Department, July, 1980

Chart 1

WOOD PULP EXPORTS

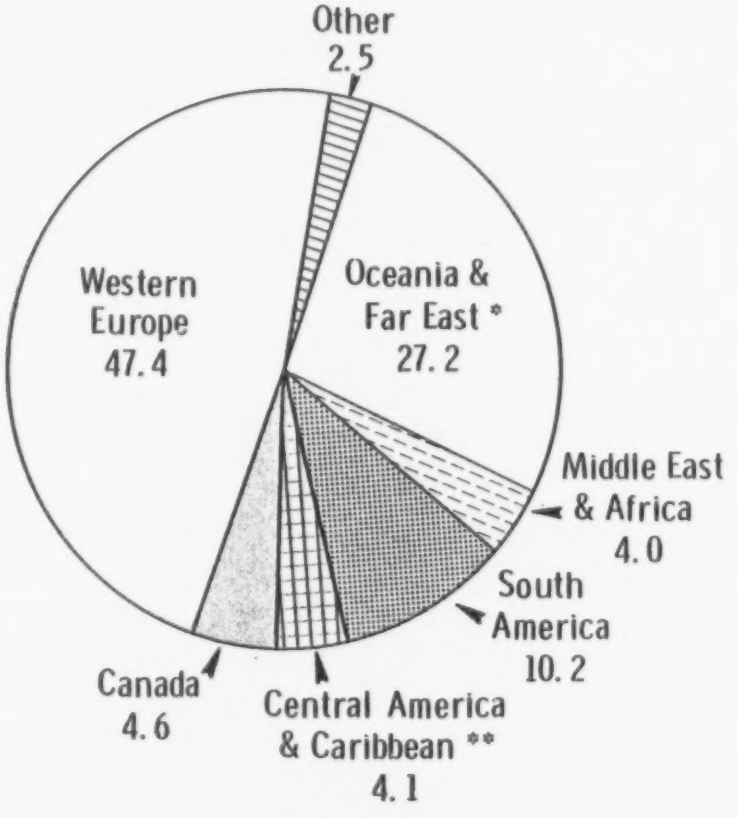
PERCENTAGE DISTRIBUTION OF U. S. EXPORT TONNAGE BY AREA OF DESTINATION

1979



2,934,815 Tons

1972



2,252,778 Tons

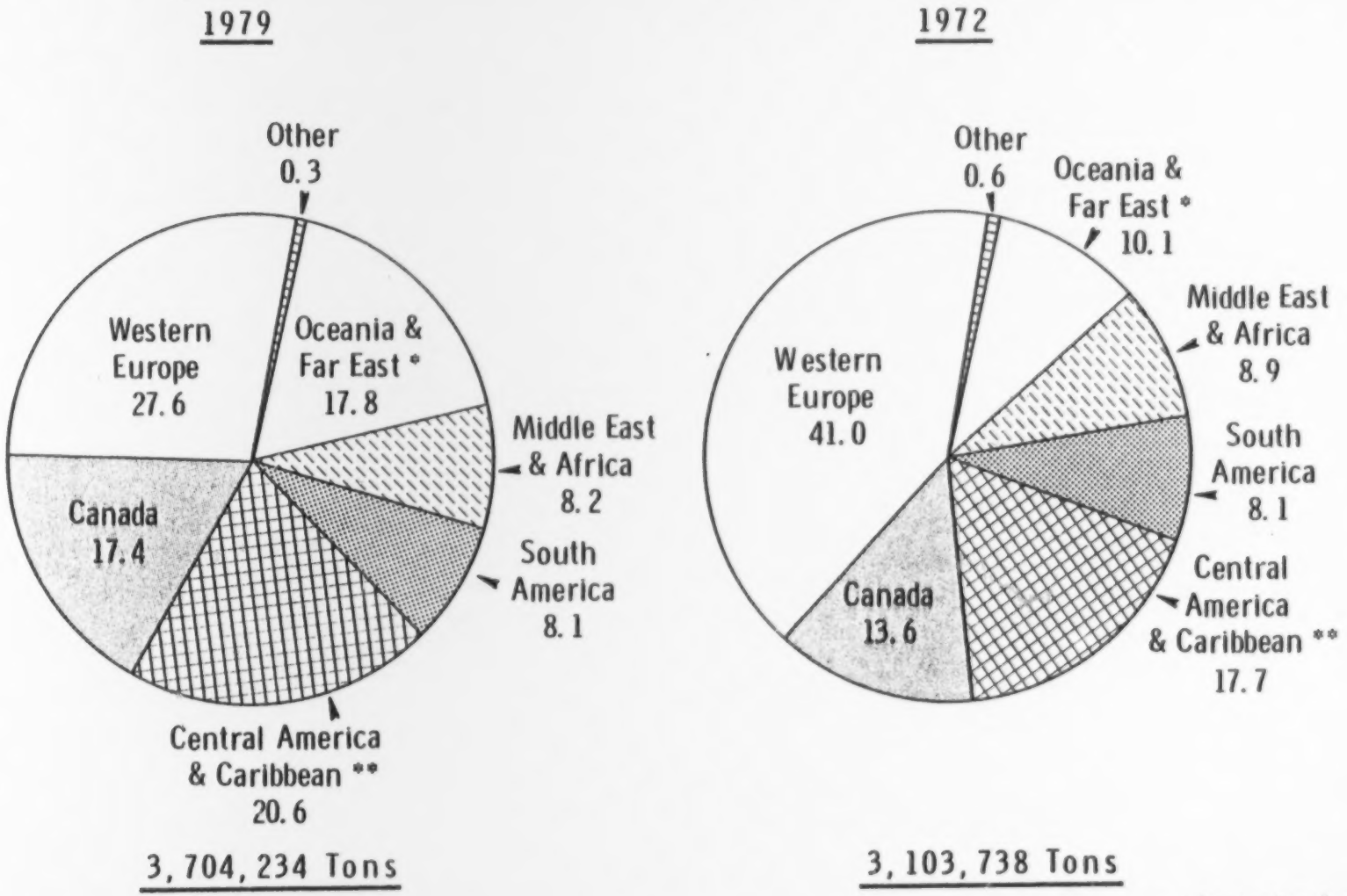
* Includes Japan

** Includes Mexico

Chart 2

PAPER, PAPERBOARD AND CONVERTED PRODUCTS

PERCENTAGE DISTRIBUTION OF U.S. EXPORT TONNAGE BY AREA OF DESTINATION



* Includes Japan

** Includes Mexico

U.S. EXPORTS OF PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS
1979

	WORLD TOTAL		TOTAL WESTERN EUROPE		ENLARGED EC		EC - ORIGINAL SIX MEMBERS		VALUE OF EXPORTS TO ENLARGED EC AS % OF VALUE OF EXPORTS WORLDWIDE
	Tons*	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	
GRAND TOTAL	9,003,739	3,369,434	2,800,928	1,106,044	2,558,417	998,800	1,920,659	743,386	29.7
WOOD PULP TOTAL	2,934,815	1,103,783	1,467,044	546,575	1,352,463	502,773	1,058,002	389,835	45.5
COTTON AND OTHER PULP	131,444	74,579	74,854	47,843	67,297	43,192	51,792	31,181	57.9
WASTE PAPER	2,233,246	256,107	238,504	29,495	197,138	23,197	192,401	22,544	9.0
PAPER, BOARD AND CONVERTED PRODUCTS	3,704,234	1,925,163	1,020,526	480,029	941,519	428,011	618,464	298,625	22.2
PAPER AND BOARD TOTAL **	3,141,891	1,339,543	936,824	352,971	868,187	321,265	564,568	221,562	24.0
PAPER TOTAL	600,876	507,568	79,263	101,289	72,543	89,352	55,724	67,028	17.6
NEWSPRINT	71,456	32,046	10,769	5,479	10,321	5,138	8,378	3,931	16.0
PRINTING, WRITING & RELATED PAPER	274,608	233,371	43,099	56,175	39,858	51,088	32,916	42,983	21.9
Not Cut to Size or Shape:	255,683	207,937	41,256	53,001	38,137	48,253	32,508	41,919	23.2
Uncoated Groundwood	80,392	55,384	17,716	19,714	16,837	18,651	15,306	17,389	33.7
Clay Coated Groundwood	38,384	27,690	5,499	7,983	5,389	7,872	5,331	7,714	28.4
Uncoated Free Sheet	51,284	41,858	5,919	5,190	5,500	4,581	2,720	1,908	10.9
Clay Coated Free Sheet	35,137	30,054	1,081	2,493	895	1,982	462	1,082	6.6
Other Printing, Writing & Related ***	50,486	52,951	11,041	17,621	9,516	15,167	8,689	13,826	28.6
Cut to Size or Shape:	18,925	25,434	1,843	3,174	1,721	2,835	408	1,064	11.1
Uncoated Free Sheet	16,875	22,288	1,588	2,276	1,502	2,058	260	589	9.2
Cotton Fiber	2,050	3,146	255	893	219	777	148	475	24.7

* Volume expressed in short tons throughout this report.

** Includes Paper, Paperboard, Wet Machine Board and Construction Paper and Board.

*** Included in this category in the World Total column are: self-copy papers (19,300 tons and $24.4 million), other thin and carbonizing papers (13,057 tons and $12.3 million), coated and uncoated bristols (9,242 tons and $6.7 million), and cotton pulp paper (8,887 tons and $9.5 million).

	WORLD TOTAL		TOTAL WESTERN EUROPE		ENLARGED EC		EC - ORIGINAL SIX MEMBERS		VALUE OF EXPORTS TO ENLARGED EC AS % OF VALUE OF EXPORTS WORLDWIDE
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	
PACKAGING AND INDUSTRIAL CONVERTING PAPER	103,782	57,775	8,559	7,675	8,152	6,314	6,647	4,141	10.9
Unbleached Kraft	63,695	27,079	2,957	2,255	2,810	1,727	1,981	992	6.4
Bleached Kraft	20,971	8,703	4,340	1,784	4,300	1,662	4,108	1,434	19.1
Other	19,116	21,993	1,262	3,636	1,042	2,925	558	1,715	13.3
TISSUE PAPER	27,905	23,934	3,722	4,367	3,548	4,205	2,057	2,678	17.6
SPECIAL INDUSTRIAL PAPER	123,125	160,442	13,114	27,593	10,664	22,607	5,726	13,295	14.1
PAPERBOARD TOTAL	2,446,972	789,902	844,110	244,707	793,106	225,650	498,136	149,346	28.6
UNBLEACHED KRAFT LINERBOARD *	1,644,901	434,515	711,138	190,298	660,975	175,532	403,371	110,390	40.4
OTHER UNBLEACHED KRAFT BOARD	100,301	33,739	26,169	8,983	25,887	8,602	24,952	8,070	25.5
SEMI-CHEMICAL CORRUGATING MEDIUM	17,358	5,208	1,691	463	421	185	194	95	3.6
BLEACHED PAPERBOARD	508,601	238,813	82,080	33,927	79,133	32,576	61,161	25,178	13.6
Kraft Folding Boxboard	91,259	47,377	18,776	7,383	17,168	6,769	10,388	4,030	14.3
Kraft Milk Carton Stock	320,236	144,618	52,849	21,273	52,610	21,179	42,470	17,132	14.6
Kraft Plate, Dish, Cup & Tray Stock	40,804	19,460	8,441	3,912	7,890	3,636	7,102	3,177	18.7
Other Kraft	56,302	27,358	2,014	1,359	1,465	992	1,201	839	3.6
RECYCLED PAPERBOARD	175,811	77,627	23,032	11,036	16,690	8,755	8,458	5,613	11.3
WET MACHINE BOARD	7,371	5,146	429	776	407	724	227	383	14.1
CONSTRUCTION PAPER AND PAPERBOARD TOTAL	86,672	36,927	13,022	6,199	12,131	5,539	10,481	4,805	15.0

* Includes small amount of bleached kraft linerboard.

	WORLD TOTAL		TOTAL WESTERN EUROPE		ENLARGED EC		EC - ORIGINAL SIX MEMBERS		VALUE OF EXPORTS TO ENLARGED EC AS % OF VALUE OF EXPORTS WORLDWIDE
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	
CONVERTED PAPER AND PAPERBOARD PRODUCTS TOTAL	562,343	585,620	83,702	127,058	73,332	106,746	53,896	77,063	18.2
WALL PAPER	4,703	14,529	787	2,929	719	2,636	232	1,278	18.1
PRINTING, WRITING & RELATED PAPER PRODUCTS	55,674	65,178	6,108	13,991	5,363	11,604	2,508	6,789	17.8
CIGARETTE PAPER	25,143	45,947	4,660	9,260	2,969	5,730	958	1,884	12.5
PACKAGING AND INDUSTRIAL CONVERTING PAPER PRODUCTS	31,185	38,399	4,125	11,466	3,210	9,369	1,905	5,819	24.4
TISSUE PAPER PRODUCTS	140,252	174,848	35,443	41,826	31,720	35,706	29,802	33,261	20.4
SPECIAL INDUSTRIAL PAPER PRODUCTS, MOLDED PULP & OTHER	75,450	88,179	11,252	21,456	9,221	17,227	6,424	12,209	19.5
PAPERBOARD BOXES, CARTONS & DRUMS	136,650	73,452	4,354	5,364	3,826	4,854	2,250	2,327	6.6
SANITARY FOOD CONTAINERS	49,980	48,085	8,853	8,959	8,279	8,104	2,326	2,919	16.8
CORRUGATED PAPER & PAPERBOARD	36,409	30,811	7,559	10,715	7,477	10,454	7,186	9,933	33.9
COMPOSITE PAPER & PAPERBOARD	6,897	6,192	561	1,092	533	1,062	305	644	17.1
ENVELOPES & TAB MACHINE CARDS FOR WHICH NO TONNAGE FIGURES ARE AVAILABLE *	-	9,802	-	2,102	-	1,627	-	1,201	16.6

* These total dollar amounts are included in Grand Total Figures (Page 1, line 1), but are not included in any other totals reported by grade.

	CANADA		CENTRAL AMERICA AND MEXICO		CARIBBEAN AND OTHER ISLANDS		SOUTH AMERICA		NEAR AND MIDDLE EAST	
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)
GRAND TOTAL	1,268,770	467,229	1,216,227	395,322	169,064	94,882	566,242	223,188	179,175	111,396
WOOD PULP TOTAL	136,641	49,608	166,917	58,736	7,627	2,446	133,915	47,725	19,671	8,040
COTTON AND OTHER PULP	7,921	3,728	32,183	13,905	-	-	2,759	1,558	487	254
WASTE PAPER	478,479	50,206	394,443	43,774	21,334	2,858	128,387	13,851	926	258
PAPER, BOARD AND CONVERTED PRODUCTS	645,729	360,490	622,684	277,844	140,103	89,052	301,181	159,632	158,091	102,567
PAPER AND BOARD TOTAL *	474,605	246,976	519,132	191,113	95,198	42,441	257,932	116,077	126,772	47,181
PAPER TOTAL	194,651	149,514	110,534	74,884	31,011	20,833	69,813	53,910	13,733	12,422
NEWSPRINT	2,803	1,734	9,269	5,323	2,278	1,381	19,179	7,801	2	8
PRINTING, WRITING & RELATED PAPER	108,290	76,567	54,956	38,823	12,307	10,296	17,183	14,294	2,580	3,437
Not Cut to Size or Shape:	102,198	71,086	50,729	29,939	10,118	7,993	15,626	12,691	2,364	3,086
Uncoated Groundwood	15,099	11,348	28,804	11,431	977	1,069	6,093	4,004	96	141
Clay Coated Groundwood	27,265	15,767	2,228	1,680	470	306	2,504	1,352	33	39
Uncoated Free Sheet	20,284	14,181	9,159	7,642	1,044	797	1,809	2,046	444	464
Clay Coated Free Sheet	21,534	15,758	3,239	2,992	4,146	3,386	3,091	2,714	193	473
Other Printing, Writing & Related	18,016	14,032	7,299	6,194	3,481	2,435	2,129	2,575	1,598	1,969
Cut to Size or Shape:	6,092	5,481	4,227	8,884	2,189	2,303	1,557	1,603	216	351
Uncoated Free Sheet	5,180	4,684	3,874	8,505	1,886	1,945	1,424	1,475	169	268
Cotton Fiber	912	797	353	379	303	358	83	128	47	83

* Includes Paper, Paperboard, Wet Machine Board and Construction Paper and Board.

	CANADA		CENTRAL AMERICA AND MEXICO		CARIBBEAN AND OTHER ISLANDS		SOUTH AMERICA		NEAR AND MIDDLE EAST	
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)
PACKAGING AND INDUSTRIAL CONVERTING PAPER	16,110	10,108	29,781	14,354	11,971	5,333	18,297	7,458	2,721	1,181
Unbleached Kraft	5,558	2,477	24,379	9,102	10,267	4,128	9,179	3,193	1,166	380
Bleached Kraft	2,241	960	2,272	1,325	993	638	8,006	2,414	1,482	660
Other	8,311	6,671	3,130	3,927	711	567	1,112	1,851	73	141
TISSUE PAPER	7,501	5,825	5,672	3,917	2,153	1,924	374	460	7,227	5,747
SPECIAL INDUSTRIAL PAPER	59,947	55,280	10,856	12,467	2,302	1,899	14,780	23,897	1,203	2,049
PAPERBOARD TOTAL	217,739	73,126	402,770	113,275	60,960	20,484	186,503	60,974	109,119	31,929
UNBLEACHED KRAFT LINERBOARD *	54,606	10,545	278,352	63,294	45,912	14,130	109,969	28,524	100,588	28,608
OTHER UNBLEACHED KRAFT BOARD	23,764	7,918	22,366	6,778	55	67	18,995	4,049	45	31
SEMI-CHEMICAL CORRUGATING MEDIUM	2,909	1,139	4,862	1,406	1,547	358	707	218	2,194	550
BLEACHED PAPERBOARD	66,688	30,247	64,282	25,748	1,398	849	45,907	22,030	1,121	853
Kraft Folding Boxboard	18,669	8,728	9,860	4,591	249	107	1,467	744	702	356
Kraft Milk Carton Stock	7,118	1,784	41,629	15,967	164	137	25,001	12,110	194	186
Kraft Plate, Dish, Cup & Tray Stock	9,032	3,440	3,745	1,660	365	259	12,721	6,905	139	110
Other Kraft	31,869	16,295	9,048	3,530	620	346	6,718	2,271	86	201
RECYCLED PAPERBOARD	69,772	23,277	32,908	16,049	12,048	5,080	10,925	6,153	5,171	1,887
WET MACHINE BOARD	5,269	2,765	370	304	20	30	266	287	5	5
CONSTRUCTION PAPER AND PAPERBOARD TOTAL	56,946	21,571	5,458	2,650	3,207	1,094	1,350	906	3,915	2,825

* Includes small amount of bleached kraft linerboard.

	CANADA		CENTRAL AMERICA AND MEXICO		CARIBBEAN AND OTHER ISLANDS		SOUTH AMERICA		NEAR AND MIDDLE EAST	
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)
CONVERTED PAPER AND PAPERBOARD PRODUCTS TOTAL	171,124	113,514	103,552	86,731	44,905	46,611	43,249	43,555	31,319	55,386
WALL PAPER	2,489	7,059	255	723	136	311	265	704	70	321
PRINTING, WRITING & RELATED PAPER PRODUCTS	27,123	15,586	8,213	8,700	5,368	6,946	1,887	4,205	2,707	5,610
CIGARETTE PAPER	5,202	9,813	1,263	2,015	594	1,378	3,678	7,558	159	287
PACKAGING AND INDUSTRIAL CONVERTING PAPER PRODUCTS	13,973	10,018	5,262	5,529	3,679	3,493	1,114	2,127	460	1,235
TISSUE PAPER PRODUCTS	12,372	10,966	14,318	16,370	7,997	11,595	3,606	6,359	20,817	36,906
SPECIAL INDUSTRIAL PAPER PRODUCTS, MOLDED PULP & OTHER	32,113	21,684	14,212	16,786	3,606	6,009	6,399	6,554	2,593	5,944
PAPERBOARD BOXES, CARTONS & DRUMS	56,646	22,883	37,229	21,328	12,582	7,921	19,702	9,542	1,607	1,485
SANITARY FOOD CONTAINERS	10,015	8,234	8,832	7,328	7,605	6,850	2,518	2,654	2,734	3,371
CORRUGATED PAPER & PAPERBOARD	9,524	5,958	13,331	7,392	2,910	1,741	1,511	2,847	132	180
COMPOSITE PAPER & PAPERBOARD	1,667	1,313	637	560	428	367	2,569	1,005	40	47
ENVELOPES & TAB MACHINE CARDS FOR WHICH NO TONNAGE FIGURES ARE AVAILABLE *	-	3,197	-	1,063	-	526	-	422	-	277

* These total dollar amounts are included in Grand Total Figures (Pages 1 and 4, line 1), but are not included in any other totals reported by grade.

	AFRICA		OCEANIA AND FAR EAST *		JAPAN		U.S.S.R./ EASTERN EUROPE		PEOPLE'S REPUBLIC OF CHINA	
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)
GRAND TOTAL	226,108	103,489	1,544,160	447,413	967,478	390,657	42,478	22,466	23,109	7,348
WOOD PULP TOTAL	81,589	29,943	312,516	115,643	557,406	222,214	39,638	18,970	11,851	3,883
COTTON AND OTHER PULP	82	38	6,976	3,480	4,486	2,761	1,696	1,012	-	-
WASTE PAPER	631	52	830,629	100,468	139,913	15,145	-	-	-	-
PAPER, BOARD AND CONVERTED PRODUCTS	143,806	73,193	394,039	226,309	265,673	150,117	1,144	2,475	11,258	3,455
PAPER AND BOARD TOTAL **	133,944	58,274	363,410	179,429	222,473	100,906	367	1,172	11,234	3,003
PAPER TOTAL	7,940	11,116	69,490	63,821	23,454	18,268	303	1,083	682	428
NEWSPRINT	59	127	9,270	3,511	17,827	6,682	-	-	-	-
PRINTING, WRITING & RELATED PAPER	2,597	3,536	30,663	27,016	2,236	2,710	20	98	677	419
Not Cut to Size or Shape:	2,006	2,840	28,550	24,482	2,143	2,343	18	86	675	390
Uncoated Groundwood	324	455	9,928	6,291	1,354	930	-	-	1	1
Clay Coated Groundwood	30	29	320	257	35	277	-	-	-	-
Uncoated Free Sheet	616	677	10,841	10,177	488	283	7	17	673	384
Clay Coated Free Sheet	274	278	1,446	1,708	132	231	-	16	1	5
Other Printing, Writing & Related	762	1,401	6,015	6,049	134	622	11	53	-	-
Cut to Size or Shape:	591	696	2,113	2,534	93	367	2	12	2	29
Uncoated Free Sheet	585	659	2,064	2,360	53	100	2	12	-	4
Cotton Fiber	6	37	49	174	40	267	-	-	2	25

* Excluding Japan.
** Includes Paper, Paperboard, Wet Machine Board and Construction Paper and Board.

	AFRICA		OCEANIA AND FAR EAST *		JAPAN		U.S.S.R./ EASTERN EUROPE		PEOPLE'S REPUBLIC OF CHINA	
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)
PACKAGING AND INDUSTRIAL CONVERTING PAPER	1,502	1,284	13,780	9,051	1,061	1,331	-	-	-	-
Unbleached Kraft	1,056	884	8,817	4,266	316	394	-	-	-	-
Bleached Kraft	380	253	728	490	529	179	-	-	-	-
Other	66	147	4,235	4,295	216	758	-	-	-	-
TISSUE PAPER	42	87	1,187	1,529	27	78	-	-	-	-
SPECIAL INDUSTRIAL PAPER	3,740	6,082	14,590	22,714	2,303	7,467	285	985	5	9
PAPERBOARD TOTAL	125,588	46,819	291,799	113,912	197,781	82,015	51	86	10,552	2,575
UNBLEACHED KRAFT LINERBOARD**	69,663	19,964	189,710	57,456	74,443	19,161	-	-	10,520	2,535
OTHER UNBLEACHED KRAFT BOARD	2,048	1,200	5,178	3,227	1,681	1,486	-	-	-	-
SEMI-CHEMICAL CORRUGATING MEDIUM	2,748	693	564	279	104	62	-	-	32	40
BLEACHED PAPERBOARD	48,422	23,196	79,477	42,047	119,226	59,916	-	-	-	-
Kraft Folding Boxboard	14,472	7,892	26,970	17,447	94	129	-	-	-	-
Kraft Milk Carton Stock	33,594	15,036	44,314	20,208	115,373	57,917	-	-	-	-
Kraft Plate, Dish, Cup & Tray Stock	272	207	2,534	1,520	3,555	1,447	-	-	-	-
Other Kraft	84	61	5,659	2,872	204	423	-	-	-	-
RECYCLED PAPERBOARD	2,707	1,766	16,870	10,903	2,327	1,390	51	86	-	-
WET MACHINE BOARD	135	75	599	729	278	175	-	-	-	-
CONSTRUCTION PAPER AND PAPERBOARD TOTAL	281	264	1,522	967	960	448	11	3	-	-

* Excluding Japan.
** Includes small amount of bleached kraft linerboard.

	AFRICA		OCEANIA AND FAR EAST *		JAPAN		U.S.S.R./ EASTERN EUROPE		PEOPLE'S REPUBLIC OF CHINA	
	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)	Tons	Value ($1,000)
CONVERTED PAPER AND PAPERBOARD PRODUCTS TOTAL	9,862	14,919	30,629	46,880	43,200	49,211	777	1,303	24	452
WALL PAPER	45	173	543	1,789	113	520	-	-	-	-
PRINTING, WRITING & RELATED PAPER PRODUCTS	733	1,812	2,562	5,676	354	1,655	571	967	8	30
CIGARETTE PAPER	2,398	4,249	7,189	11,387	-	-	-	-	-	-
PACKAGING AND INDUSTRIAL CONVERTING PAPER PRODUCTS	283	558	1,636	2,581	652	1,391	-	-	1	1
TISSUE PAPER PRODUCTS	1,428	2,138	5,312	8,287	38,954	40,393	5	8	-	-
SPECIAL INDUSTRIAL PAPER PRODUCTS, MOLDED PULP & OTHER	1,144	1,661	2,890	4,982	1,162	2,549	64	134	15	420
PAPERBOARD BOXES, CARTONS & DRUMS	2,597	2,630	1,462	1,553	334	552	137	194	-	-
SANITARY FOOD CONTAINERS	566	572	7,582	8,742	1,275	1,375	-	-	-	-
CORRUGATED PAPER & PAPERBOARD	370	385	799	937	273	655	-	-	-	1
COMPOSITE PAPER & PAPERBOARD	258	741	654	946	83	121	-	-	-	-
ENVELOPES & TAB MACHINE CARDS FOR WHICH NO TONNAGE FIGURES ARE AVAILABLE **	-	263	-	1,513	-	420	-	9	-	10

Source: U.S. Department of Commerce
Bureau of the Census

* Excluding Japan.

** These total dollar amounts are included in Grand Total Figures (Pages 1 and 7, line 1), but are not included in any other totals reported by grade.